

TEST REPORT

Report Number: R15701621-E7d

Applicant : HID Global Corp
611 Center Ridge Dr.
Austin, TX 78753, USA

Model : 40KV2

FCC ID : JQ6-SIGNO40KV2

IC : 2236B-SIGNO40KV2

EUT Description : Signo V2 Reader

Test Standard(s) : FCC 47 CFR PART 15 SUBPART C: 2025
RSS-210 ISSUE 11: 2024
RSS-GEN ISSUE 5 + A1 + A2: 2021

Date Of Issue:
2025-07-01

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REPORT REVISION HISTORY

Rev.	Issue Date	Revisions	Revised By
v1	2025-06-12	Initial Issue	Chandler Stanley
V2	2025-07-01	Revised Section 6.4 and Section 11 to Revise Worst-Case Exploration	Chandler Stanley

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: HID Global Corp
611 Center Ridge Dr.
Austin, TX 78753, USA

EUT DESCRIPTION: Signo V2 Reader

MODEL: 40KV2

SERIAL NUMBER: FL0P0U013XWO40KTKF8087 / FL0P0U013NWO40KTKF8087

SAMPLE RECEIPT DATE: 2025-03-10, 2025-04-01, 2025-04-10

DATE TESTED: 2025-03-18 to 2025-04-23

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC PART 15 SUBPART C: 2025	
ISED RSS-210 Issue 11: 2024	Refer to Section 3
ISED RSS-GEN Issue 5 + A1 + A2: 2021	

UL LLC tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. All samples tested were in good operating condition throughout the entire test program. Measurement Uncertainties are published for informational purposes only and were not taken into account unless noted otherwise.

This document may not be altered or revised in any way unless done so by UL LLC and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL LLC will constitute fraud and shall nullify the document.

Approved & Released
For UL LLC By:

Prepared By:



Michael Antola
Sr. Staff Engineer
Consumer, Medical and IT Segment
UL LLC



Chandler Stanley
Engineer
Consumer, Medical and IT Segment
UL LLC

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with:

- ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024
- FCC 47 CFR Part 2
- FCC 47 CFR Part 15C
- RSS-GEN Issue 5 + A1 + A2: 2021
- RSS-210 Issue 11: 2024

3. SUMMARY OF TEST RESULTS

Requirement Description	Requirement Clause Number	Result	Remarks
Occupied Bandwidth	FCC §15.215 (c) RSS-Gen 6.7	Compliant	None
Fundamental Measurements.	FCC §15.225 (a-d) FCC §15.209 (d)		
Tx Spurious Emissions	IC RSS-210, Annex B.6 IC RSS-GEN, Section 8.9 (Transmitter)		
Frequency Stability	FCC §15.225 (e) RSS-210, Annex B.6		
AC Mains Line Conducted Emissions	FCC §15.207 IC RSS-GEN, Section 8.8		

4. FACILITIES AND ACCREDITATION

UL LLC is accredited by A2LA, Certificate Number #0751.06, for all testing performed within the scope of this report. Testing was performed at the locations noted below.

	Address	ISED CABID	ISED Company Number	FCC Registration
☐	Building: 12 Laboratory Dr RTP, NC 27709, U.S.A	US0067	2180C	825374
☒	Building: 2800 Perimeter Park Dr. Suite B Morrisville, NC 27560, U.S.A		27265	

5. DECISION RULES AND MEASUREMENT UNCERTAINTY

5.1. METROLOGICAL TRACEABILITY

All test and measuring equipment utilized to perform the tests documented in this report are calibrated on a regular basis, with a maximum time between calibrations of one year or the manufacturers' recommendation, whichever is less, and where applicable is traceable to recognized national standards.

5.2. DECISION RULES

The Decision Rule is based on Simple Acceptance in accordance with ISO Guide 98-4:2012 Clause 8.2. (Measurement uncertainty is not taken into account when stating conformity with a specified requirement.)

5.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

PARAMETER	U _{Lab}
Radio Frequency (Spectrum Analyzer)	141.16 Hz
Occupied Channel Bandwidth	1.22%
RF output power, conducted	1.3 dB (PK) 0.45 dB (AV)
Power Spectral Density, conducted	2.47 dB
Unwanted Emissions, conducted	1.94 dB
All emissions, radiated	6.01 dB
Conducted Emissions (0.150-30MHz) - LISN	3.40 dB
Temperature	0.57°C
Humidity	3.39%
DC Supply voltages	1.70%

Uncertainty figures are valid to a confidence level of 95%.

5.4. SAMPLE CALCULATION

RADIATED EMISSIONS

Where relevant, the following sample calculation is provided:

Field Strength (dBuV/m) = Measured Voltage (dBuV) + Antenna Factor (dB/m) + Cable Loss (dB) – Preamp Gain (dB)

36.5 dBuV + 18.7 dB/m + 0.6 dB – 26.9 dB = 28.9 dBuV/m

MAINS CONDUCTED EMISSIONS

Where relevant, the following sample calculation is provided:

Final Voltage (dBuV) = Measured Voltage (dBuV) + Cable Loss (dB) + Limiter Factor (dB) + LISN Insertion Loss.

36.5 dBuV + 0 dB + 10.1 dB + 0 dB = 46.6 dBuV

6. EQUIPMENT UNDER TEST

6.1. DESCRIPTION OF EUT

The EUT is a smartcard reader typically installed near doorway as part of physical access system, to control access to that door, and it contains BLE, 13.56 MHz RFID, and 125 kHz RFID radios. This report covers full testing of the 13.56 MHz RFID radio.

6.2. MAXIMUM ELECTRIC FIELD STRENGTH

The transmitter has a maximum peak radiated electric field strength at 30m as follows:

Fundamental Frequency (MHz)	E-Field (dBuV/m)
13.56	46.87

6.3. SOFTWARE AND FIRMWARE

Firmware Version: 10.1
Hardware Version: Rev H

6.4. WORST-CASE CONFIGURATION AND MODE

The EUT is meant to be installed and operated in one orientation; therefore, all testing was performed with the EUT in its intended orientation. The EUT is meant to be powered via an auxiliary device (access controller) that does not come with the product. Therefore, for AC Lines, the scan was run using a DC power supply as representative

The client has declared the worst-case data rate to be 106 kbit/s; therefore, all final tests were performed without a tag and with a tag inducing 106kbit/s data-rate. The EUT only supports Type A.

A terminal cable and pigtail cable were investigated, and it was found that the terminal cable is worst-case; therefore, all testing was performed with the terminal cable. All testing was performed for tag on and tag off modes.

The distance between the EUT and tag was also investigated, and the worst-case condition occurs when the tag and EUT are separated by 2 cm; therefore, all final radiated testing was performed with the EUT and tag separated by 2 cm.

6.5. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Support Equipment List				
Description	Manufacturer	Model	Serial Number	FCC ID
Badge 13.56 MHz	NXP Semiconductors	NA	NA	NA

I/O CABLES

I/O Cable List						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	Power	1	Terminal	Unshielded	<3m	Supplies Power

SETUP DIAGRAM

Please refer to R15701621-EP3d for setup diagrams

7. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

Test Equipment Used - Wireless Conducted Measurement Equipment

Equipment ID	Description	Manufacturer	Model Number	Last Cal.	Next Cal.
Common Equipment					
Conducted Room 1					
90411	Spectrum Analyzer	Keysight Technologies	N9030A	2024-08-01	2025-08-01
179892	Environmental Meter	Fisher Scientific	15-077-963	2024-08-12	2025-08-12
207726	Temp/Humid Chamber	Thermotron	SM-32-8200	2025-01-15	2026-01-15
91212	True RMS Multimeter	Agilent	U1232A	2024-08-01	2025-08-01
NA	DC Power Supply	Keysight Technologies	E3633A	NA	NA
SOFTEMI	Antenna Port Software	UL	Version 2024.2.23	NA	NA
NA	NFC Probe Kit	EMCO	7405-9911-4442	NA	NA

Test Equipment Used - Radiated Disturbance Emissions Test Equipment (Morrisville – Chamber 2)

Equip. ID	Description	Manufacturer/Brand	Model Number	Last Cal.	Next Cal.
0.009-30MHz					
135144	Active Loop Antenna	ETS-Lindgren	6502	2024-10-02	2025-10-02
Gain-Loss Chains					
91975	Gain-loss string: 0.009-30MHz	Various	Various	2024-05-10	2025-05-10
Receiver & Software					
197954	Spectrum Analyzer	Rohde & Schwarz	ESW44	2024-03-05	2025-03-31
SOFTEMI	EMI Software	UL	Version 9.5 (18 Oct 2021)		
Additional Equipment used					
200540	Environmental Meter	Fisher Scientific	15-077-963	2023-07-19	2025-07-19

Note*: All equipment was in calibration at the time of testing.

Test Equipment Used - Radiated Disturbance Emissions Test Equipment (Morrisville – Chamber 4)

Equip. ID	Description	Manufacturer/Brand	Model Number	Last Cal.	Next Cal.
0.009-30MHz					
135144	Active Loop Antenna	ETS-Lindgren	6502	2024-10-02	2025-10-02
30-1000 MHz					
90628	Hybrid Broadband Antenna	Sunol Sciences Corp.	JB3	2024-01-02	2026-01-02
Gain-Loss Chains					
207638	Gain-loss string: 0.009-30MHz	Various	Various	2024-05-22	2025-05-22
207639	Gain-loss string: 25-1000MHz	Various	Various	2024-05-22	2025-05-22
Receiver & Software					
197955	Spectrum Analyzer	Rohde & Schwarz	ESW44	2024-04-16	2025-04-30
SOFTEMI	EMI Software	UL	Version 9.5 (18 Oct 2021)		
Additional Equipment used					
241204	Environmental Meter	Fisher Scientific	15-077-963	2023-09-05	2025-09-05

Test Equipment Used - Line-Conducted Emissions – Voltage (Morrisville – Conducted 1)

Equipment ID	Description	Manufacturer	Model Number	Last Cal.	Next Cal.
70374	EMI Test Receiver	ROHDE & SCHWARZ	ESCI7	2024-07-30	2025-07-30
CBL087	Coax cable, RG223, N-male to BNC-male, 20-ft.	Pasternack	PE3W06143-240	2024-04-04	2025-04-30
179892	Environmental Meter	Fisher Scientific	15-077-963	2024-08-12	2025-08-12
80391	LISN, 50-ohm/50-uH, 250uH 2-conductor, 25A	Fischer Custom Com.	FCC-LISN-50/250-25-2-01	2024-08-01	2025-08-01
236852	CW-AC Power Source	Ametek	CW2501	NA	NA
SOFTEMI	EMI Software	UL	Version 9.5 (18 Oct 2021)		

8. 20dB and 99% BANDWIDTH

LIMITS

§15.215 (c) Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

TEST PROCEDURE

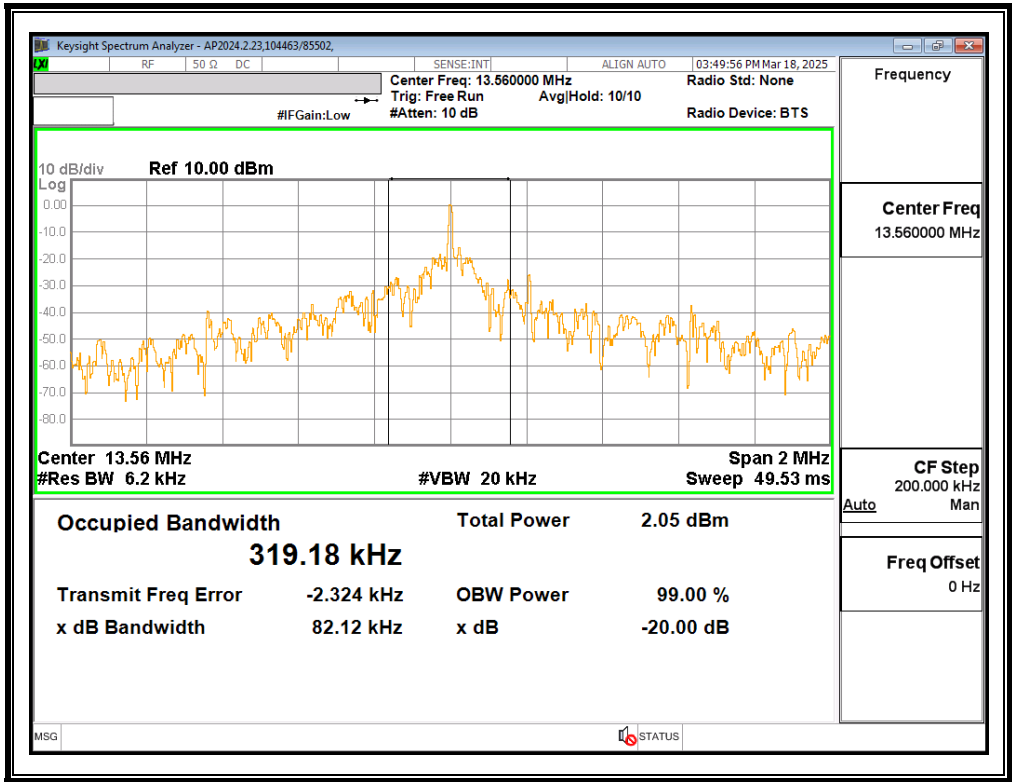
The transmitter output is connected to the spectrum analyzer. The RBW is set to 1-5% of the 20dB bandwidth. The VBW is set to 3 times the RBW. The sweep time is coupled. The spectrum analyzer internal 99% bandwidth function is utilized.

RESULTS

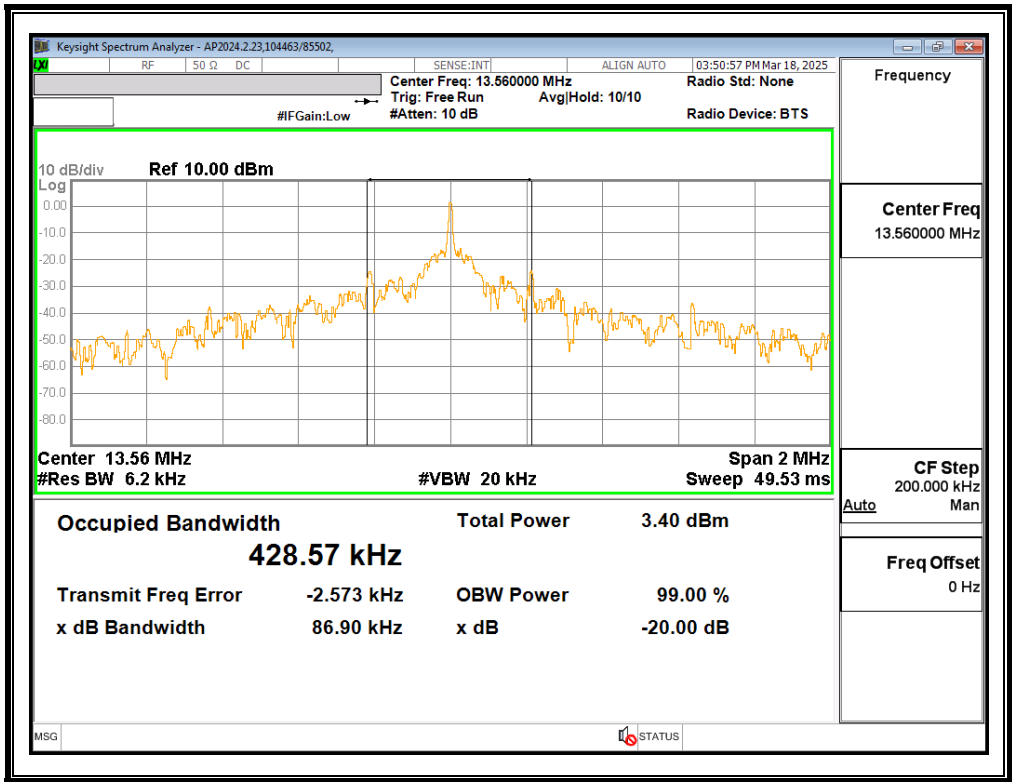
Note*: Because the measured signal is CW or CW-like, adjusting the RBW per C63.10 would not be practical since the measured bandwidth will always follow the RBW.

Mode	Frequency (MHz)	20dB Bandwidth (kHz)	99% Bandwidth (kHz)
Tag On	13.56	82.12	319.18
Tag Off	13.56	86.90	428.57

8.1. Tag On



8.2. Tag Off



9. RADIATED EMISSION TEST RESULTS

9.1. LIMITS AND PROCEDURE

LIMIT

FCC §15.225

IC RSS-210, Annex B.6

IC RSS-GEN, Section 8.9 (Transmitter)

(a) The field strength of any emissions within the band 13.553–13.567 MHz shall not exceed 15,848 microvolts/ meter at 30 meters.

(b) Within the bands 13.410–13.553 MHz and 13.567–13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters.

(c) Within the bands 13.110–13.410 MHz and 13.710–14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter at 30 meters.

(d) The field strength of any emissions appearing outside of the 13.110– 14.010 MHz and shall not exceed the general radiated emission limits in § 15.209 as follows:

§15.209 (a) Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Limits for radiated disturbance of an intentional radiator		
Frequency range (MHz)	Limits (µV/m)	Measurement Distance (m)
0.009 – 0.490	2400 / F (kHz)	300
0.490 – 1.705	24000 / F (kHz)	30
1.705 – 30.0	30	30
30 – 88	100**	3
88 - 216	150**	3
216 – 960	200**	3
Above 960	500	3

RSS-GEN, Section 8.9 and 8.10.

Frequency Range (MHz)	Field Strength Limit (uA/m) at 3 m	Field Strength Limit (dBuA/m) at 3 m
0.009-0.490	6.37/F(kHz) @ 300 m	-
0.490-1.705	63.7/F(kHz) @ 30 m	-
1.705 - 30	0.08 @ 30m	-
Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
Above 960	500	54

** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz

or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g. §§ 15.231 and 15.241.

§15.209 (b) In the emission table above, the tighter limit applies at the band edges.

Formula for converting the filed strength from uV/m to dBuV/m is:

Limit (dBuV/m) = 20 log limit (uV/m)

In addition:

§15.209 (d) The emission limits shown the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emissions limits in these three bands are based on measurements employing an average detector.

§15.209 (d) The provisions in §§ 15.225, measuring emissions at distances other than the distances specified in the above table, determining the frequency range over which radiated emissions are to be measured, and limiting peak emissions apply to all devices operated under this part.

TEST PROCEDURE

ANSI C63.10 - 2020

The EUT is an intentional radiator that incorporates a digital device, the highest fundamental frequency generated or used in the device is 13.56 MHz; therefore, the frequency range was investigated from 9kHz to the 10th harmonic of the highest fundamental frequency, or 1000 MHz, whichever is greater.

Note: For all Below 30MHz test data, all measurements were made at a test distance of 3 m. The measured data was extrapolated from the test distance (3m) to the specification distance (300 m from 9-490 kHz and 30 m from 490 kHz – 30 MHz) to clearly show the relative levels of fundamental and spurious emissions and demonstrate compliance with the requirement that the level of any spurious emissions be below the level of the intentionally transmitted signal. The extrapolation factor for the limits were $40 \cdot \log(\text{test distance} / \text{specification distance})$.

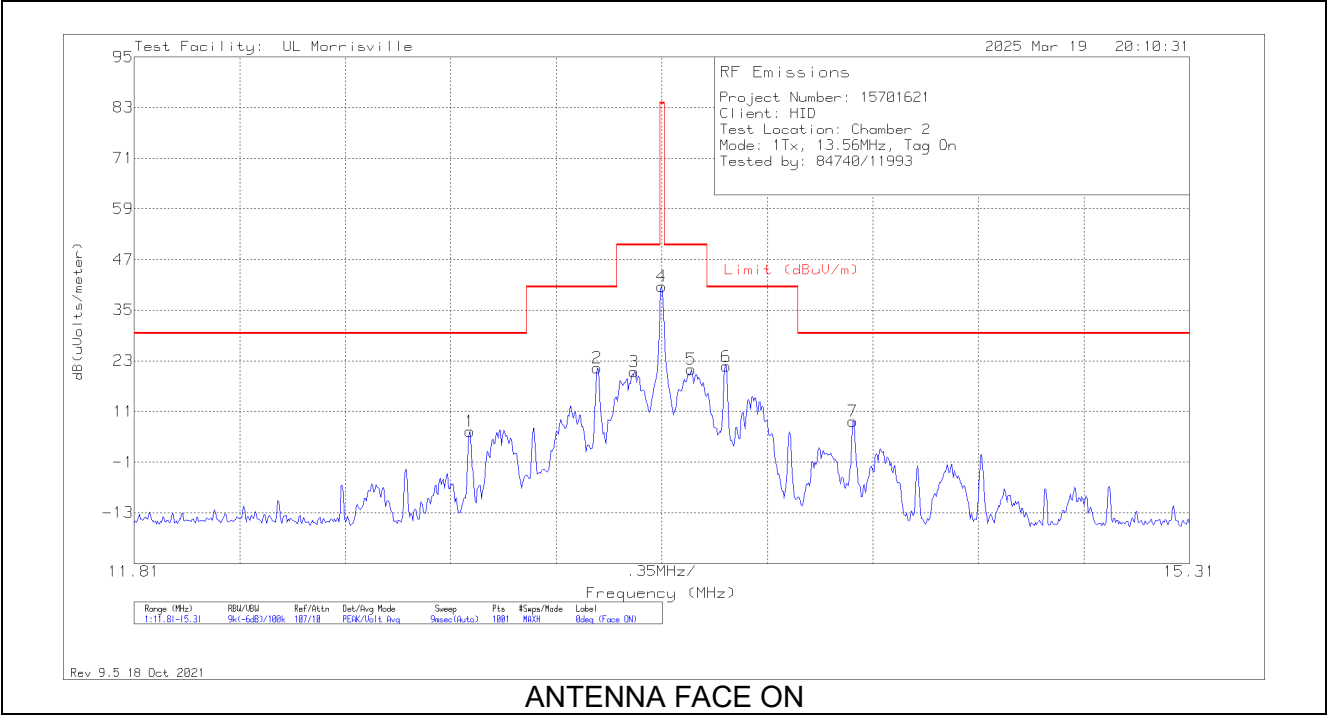
Although these tests were performed other than open area test site, adequate comparison measurements were confirmed against 30 m open area test site. Therefore, sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field based on KDB 414788.

RESULTS

9.2. FUNDAMENTAL AND SPURIOUS EMISSIONS (<30MHz)

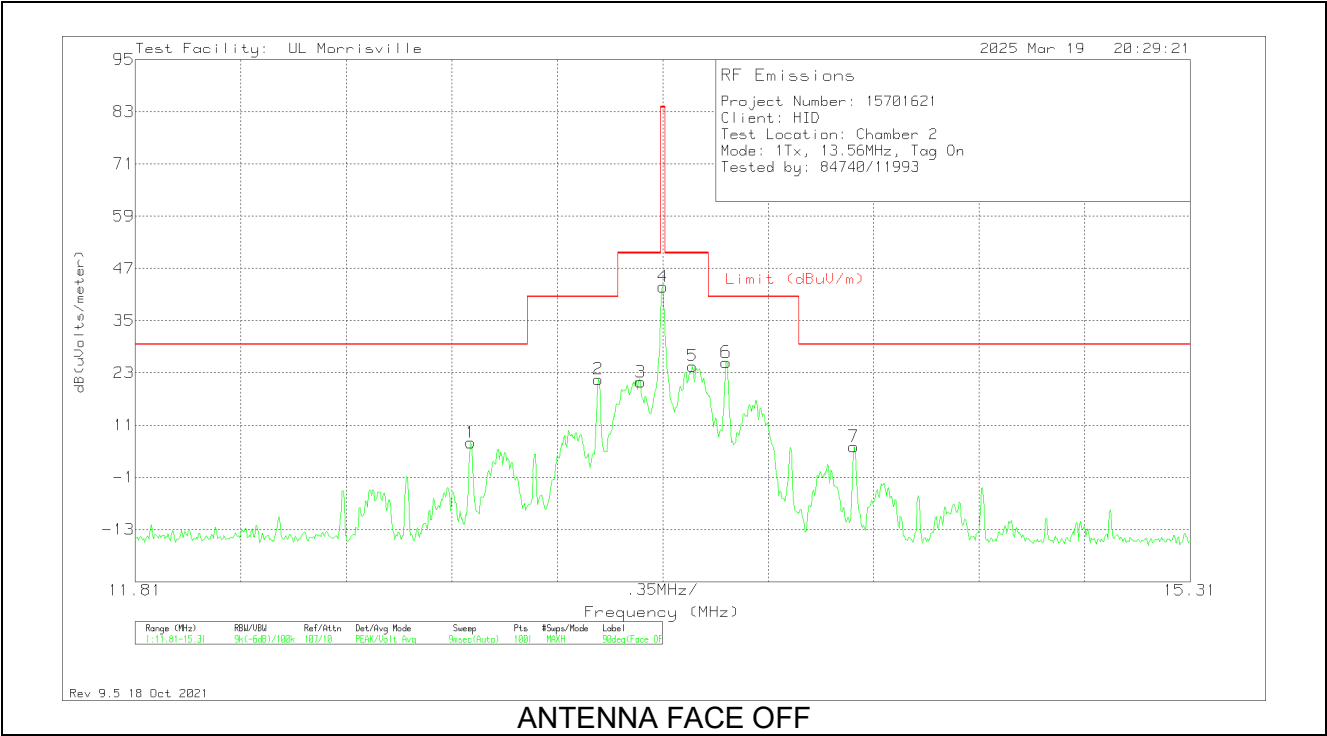
9.2.1. TYPE A, TAG ON

FUNDAMENTAL



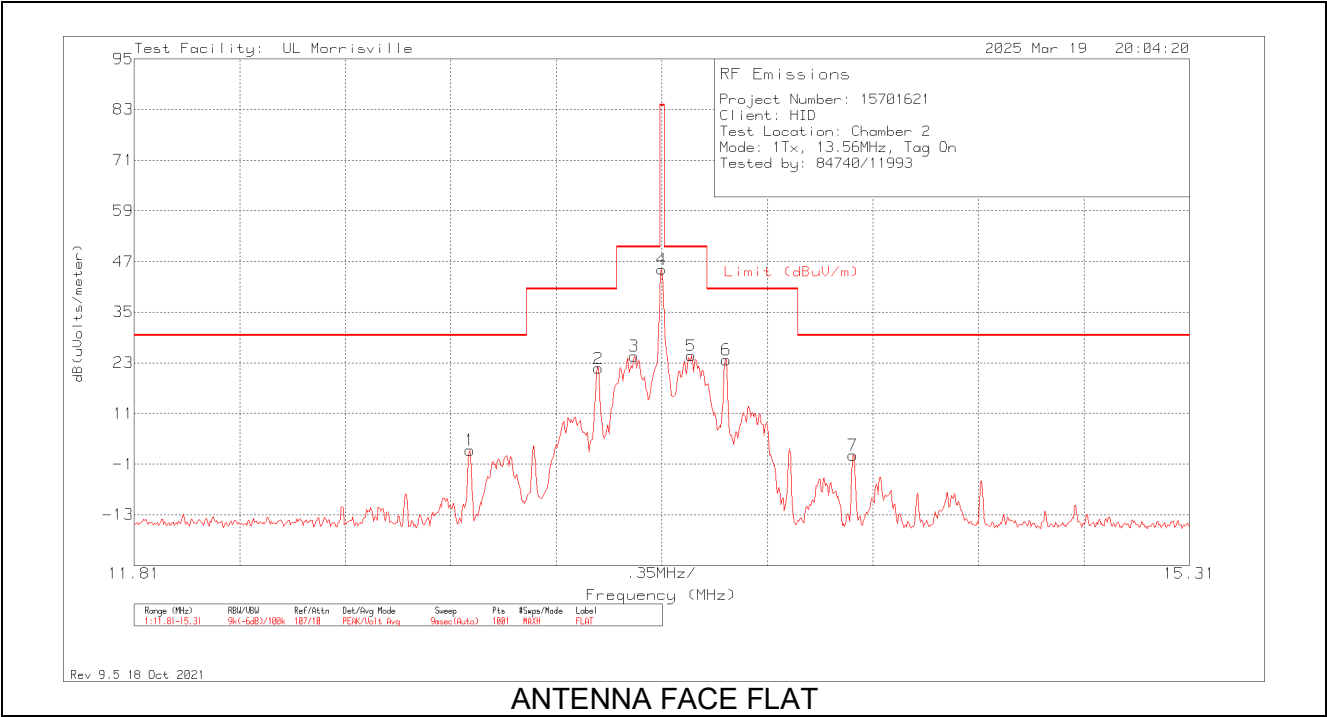
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	135144 (dB/m)	Gain/Loss (dB)	Dist. Corr. Factor (dB)	Corrected Reading dB(uVolts/meter)	Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Loop Angle
1	12.923	35.9	Pk	9.8	.6	-40	6.3	29.5	-23.2	356	0 degs
2	13.3465	50.97	Pk	9.8	.6	-40	21.37	40.5	-19.13	356	0 degs
3	13.469	50.04	Pk	9.8	.6	-40	20.44	50.5	-30.06	356	0 degs
4	13.56	70.27	Pk	9.8	.6	-40	40.67	84	-43.33	356	0 degs
5	13.658	50.59	Pk	9.8	.6	-40	20.99	50.5	-29.51	356	0 degs
6	13.7735	51.38	Pk	9.7	.6	-40	21.68	40.5	-18.82	356	0 degs
7	14.1935	38.44	Pk	9.7	.6	-40	8.74	29.5	-20.76	356	0 degs

Pk - Peak detector



Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	135144 (dB/m)	Gain/Loss (dB)	Dist. Corr. Factor (dB)	Corrected Reading dB(uVolts/meter)	Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Loop Angle
1	12.923	36.58	Pk	9.8	.6	-40	6.98	29.5	-22.52	356	90 degs
2	13.3465	51.13	Pk	9.8	.6	-40	21.53	40.5	-18.97	356	90 degs
3	13.4865	50.49	Pk	9.8	.6	-40	20.89	50.5	-29.61	356	90 degs
4	13.56	72.39	Pk	9.8	.6	-40	42.79	84	-41.21	356	90 degs
5	13.658	54.16	Pk	9.8	.6	-40	24.56	50.5	-25.94	356	90 degs
6	13.77	55.11	Pk	9.7	.6	-40	25.41	40.5	-15.09	356	90 degs
7	14.1935	35.75	Pk	9.7	.6	-40	6.05	29.5	-23.45	356	90 degs

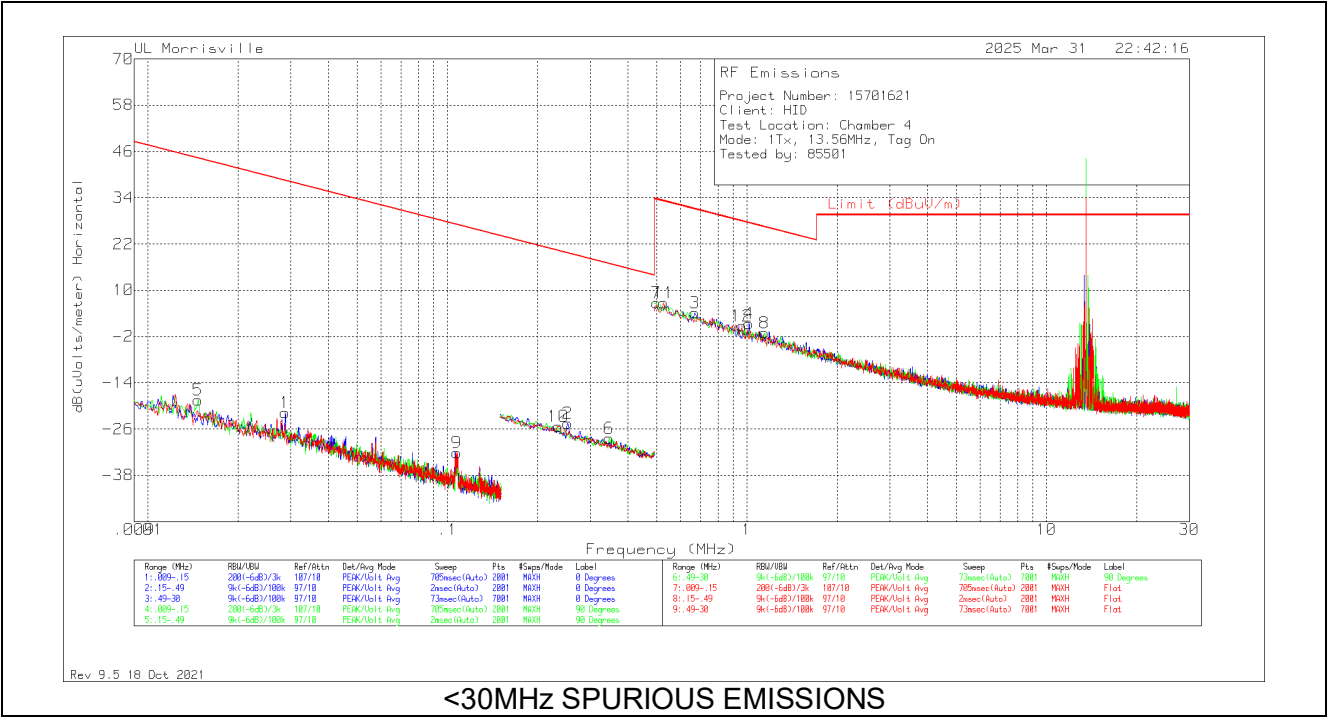
Pk - Peak detector



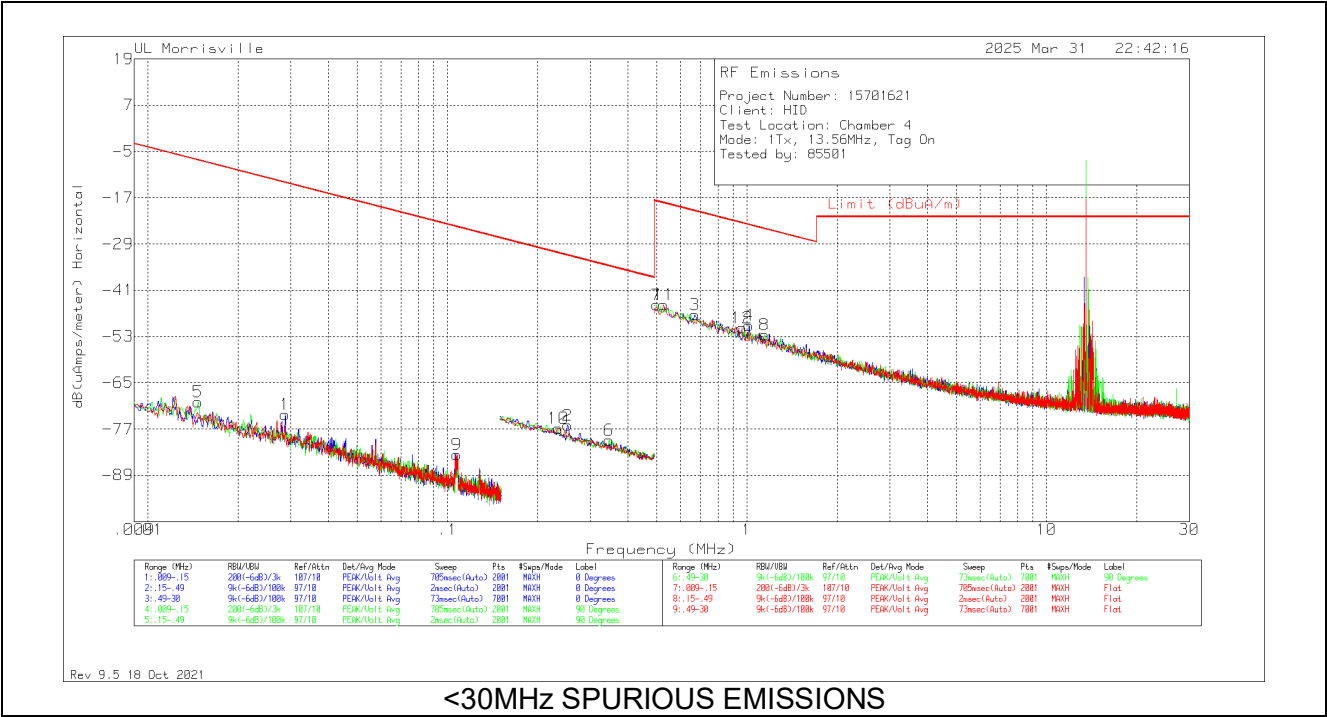
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	135144 (dB/m)	Gain/Loss (dB)	Dist. Corr. Factor (dB)	Corrected Reading dB(uVolts/meter)	Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Loop Angle
1	12.923	31.84	Pk	9.8	.6	-40	2.24	29.5	-27.26	12	Flat
2	13.35	51.28	Pk	9.8	.6	-40	21.68	40.5	-18.82	12	Flat
3	13.469	54.23	Pk	9.8	.6	-40	24.63	50.5	-25.87	12	Flat
4	13.56	74.75	Pk	9.8	.6	-40	45.15	84	-38.85	12	Flat
5	13.658	54.26	Pk	9.8	.6	-40	24.66	50.5	-25.84	12	Flat
6	13.7735	53.36	Pk	9.7	.6	-40	23.66	40.5	-16.84	12	Flat
7	14.1935	30.82	Pk	9.7	.6	-40	1.12	29.5	-28.38	12	Flat

Pk - Peak detector

SPURIOUS EMISSION – E FIELD



SPURIOUS EMISSION – H FIELD

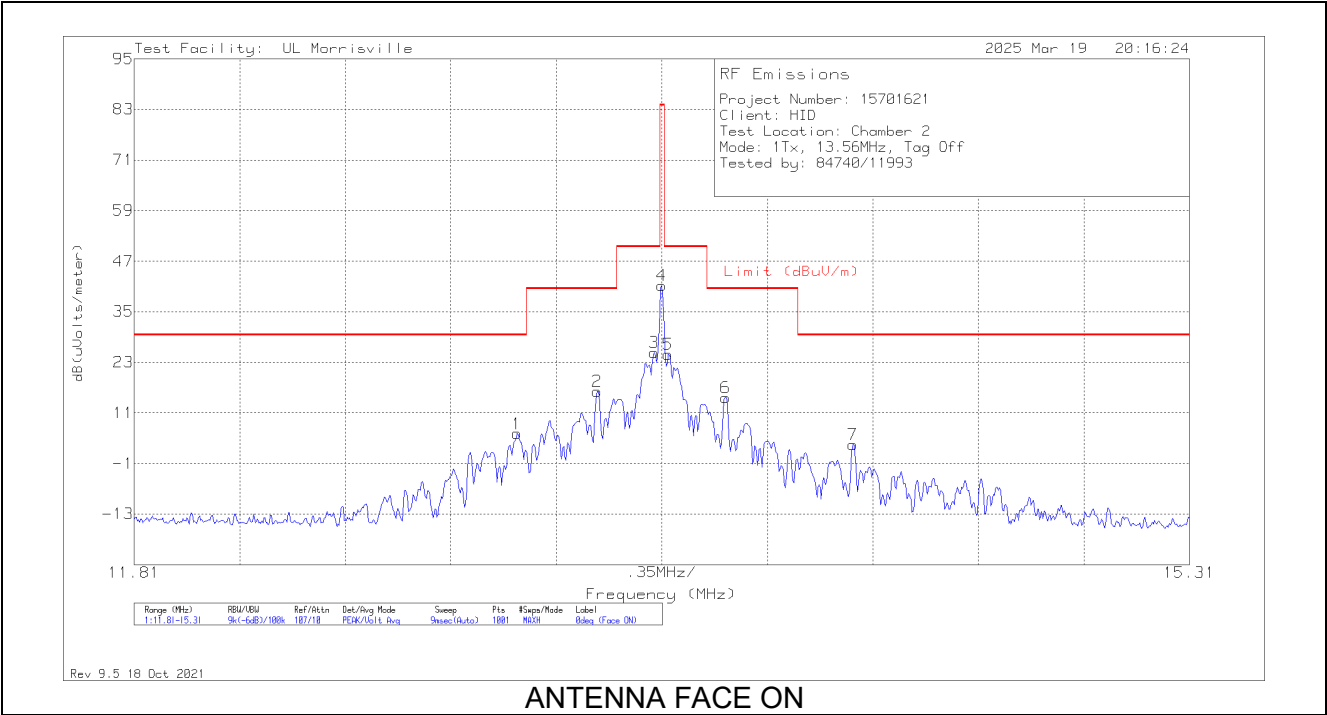


Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	ANT (dB/m)	Gain/Loss (dB)	Dist. Corr. Factor (dB)	Corrected Reading dB(uAmps/meter)	QP/AV Limit (dBuA/m)	PKLimit (dBuA/m)	Margin (dB)	Azimuth (Degs)	Loop Angle
5	.01468	44.8	Pk	-34.9	.1	-80	-70	-7.23	12.77	-62.77	0-360	90 degs
1	.02874	44.95	Pk	-38.3	.1	-80	-73.25	-13.06	6.94	-60.19	0-360	0 degs
9	.10741	36.63	Pk	-40.4	.1	-80	-83.67	-24.52	-	-59.15	0-360	Flat
10	.23441	43.74	Pk	-40.6	.1	-80	-76.76	-31.3	-11.3	-45.46	0-360	Flat
2	.25192	44.43	Pk	-40.6	.1	-80	-76.07	-31.92	-11.92	-44.15	0-360	0 degs
6	.34686	40.61	Pk	-40.6	.1	-80	-79.89	-34.7	-14.7	-45.19	0-360	90 degs
7	.49843	35.57	Pk	-40.5	.1	-40	-44.83	-17.85	-	-26.98	0-360	90 degs
11	.52794	35.69	Pk	-40.5	.1	-40	-44.71	-18.35	-	-26.36	0-360	Flat
3	.67129	32.89	Pk	-40.5	.2	-40	-47.41	-20.43	-	-26.98	0-360	0 degs
12	.96219	29.56	Pk	-40.5	.2	-40	-50.74	-23.56	-	-27.18	0-360	Flat
4	1.01278	30.2	Pk	-40.5	.2	-40	-50.1	-24.01	-	-26.09	0-360	0 degs
8	1.14348	27.79	Pk	-40.5	.2	-40	-52.51	-25.06	-	-27.45	0-360	90 degs

Pk - Peak detector

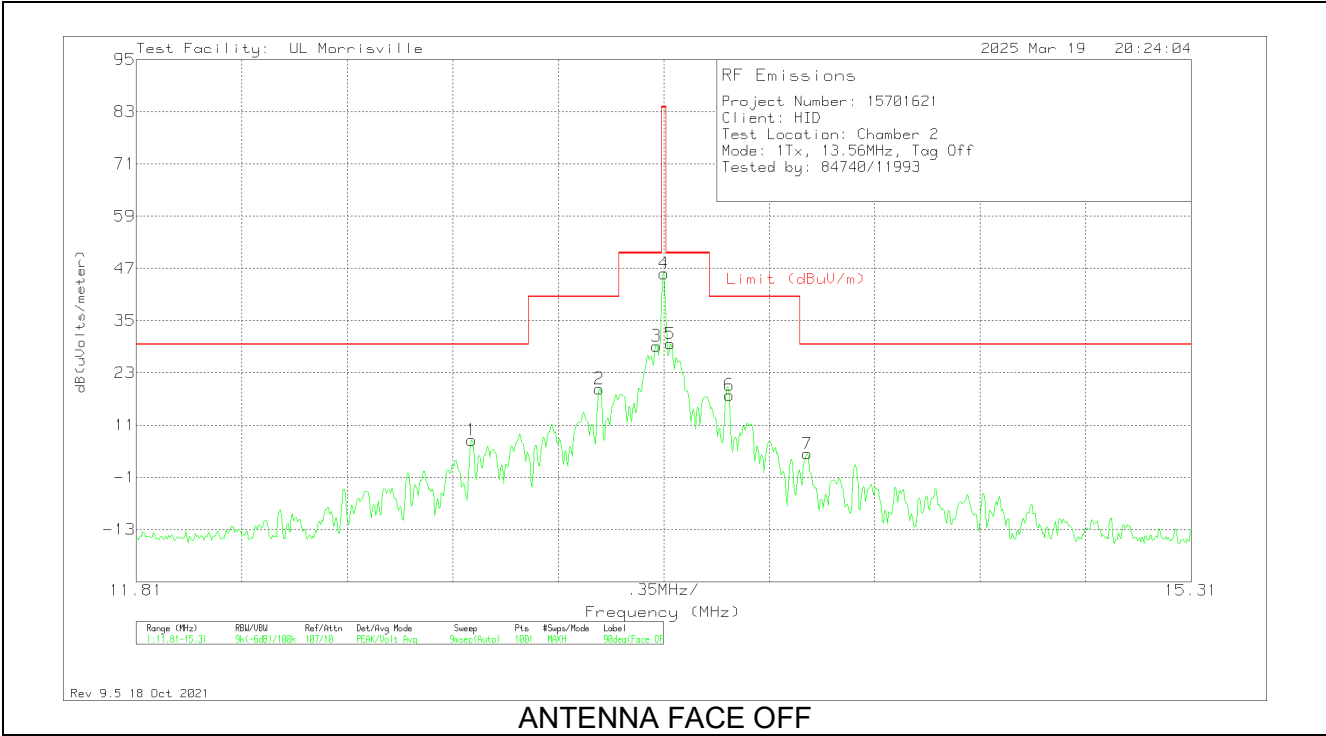
9.2.2. TYPE A, TAG OFF

FUNDAMENTAL



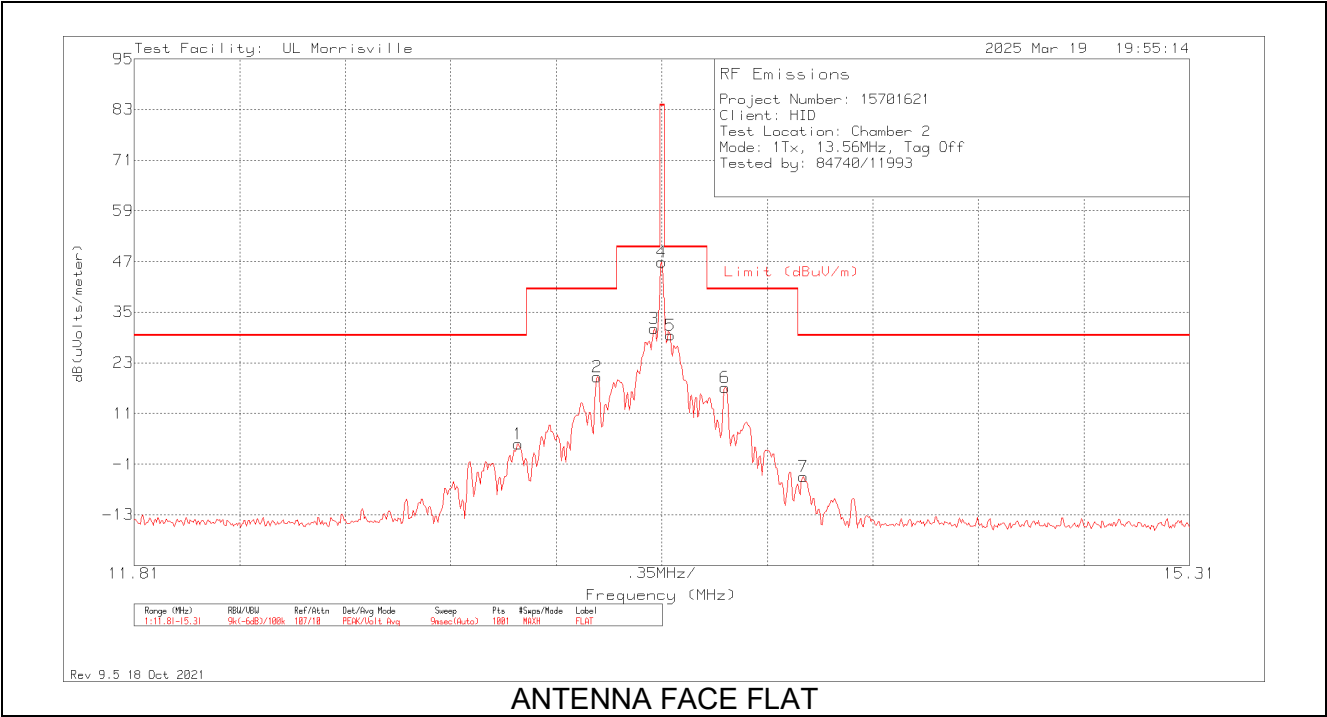
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	135144 (dB/m)	Gain/Loss (dB)	Dist. Corr. Factor (dB)	Corrected Reading dB(uVolts/meter)	Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Loop Angle
1	13.0805	35.68	Pk	9.8	.6	-40	6.08	29.5	-23.42	8	0 degs
2	13.3465	45.76	Pk	9.8	.6	-40	16.16	40.5	-24.34	8	0 degs
3	13.5355	54.95	Pk	9.8	.6	-40	25.35	50.5	-25.15	8	0 degs
4	13.56	70.8	Pk	9.8	.6	-40	41.2	84	-42.8	8	0 degs
5	13.581	54.51	Pk	9.8	.6	-40	24.91	50.5	-25.59	8	0 degs
6	13.77175	44.37	Pk	9.7	.6	-40	14.67	40.5	-25.83	8	0 degs
7	14.1935	33.13	Pk	9.7	.6	-40	3.43	29.5	-26.07	8	0 degs

Pk - Peak detector



Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	135144 (dB/m)	Gain/Loss (dB)	Dist. Corr. Factor (dB)	Corrected Reading dB(uVolts/meter)	Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Loop Angle
1	12.923	37.14	Pk	9.8	.6	-40	7.54	29.5	-21.96	78	90 degs
2	13.3465	48.92	Pk	9.8	.6	-40	19.32	40.5	-21.18	78	90 degs
3	13.5355	58.76	Pk	9.8	.6	-40	29.16	50.5	-21.34	78	90 degs
4	13.56	75.42	Pk	9.8	.6	-40	45.82	84	-38.18	78	90 degs
5	13.581	59.29	Pk	9.8	.6	-40	29.69	50.5	-20.81	78	90 degs
6	13.777	47.58	Pk	9.7	.6	-40	17.88	40.5	-22.62	78	90 degs
7	14.036	34.1	Pk	9.7	.6	-40	4.4	29.5	-25.1	78	90 degs

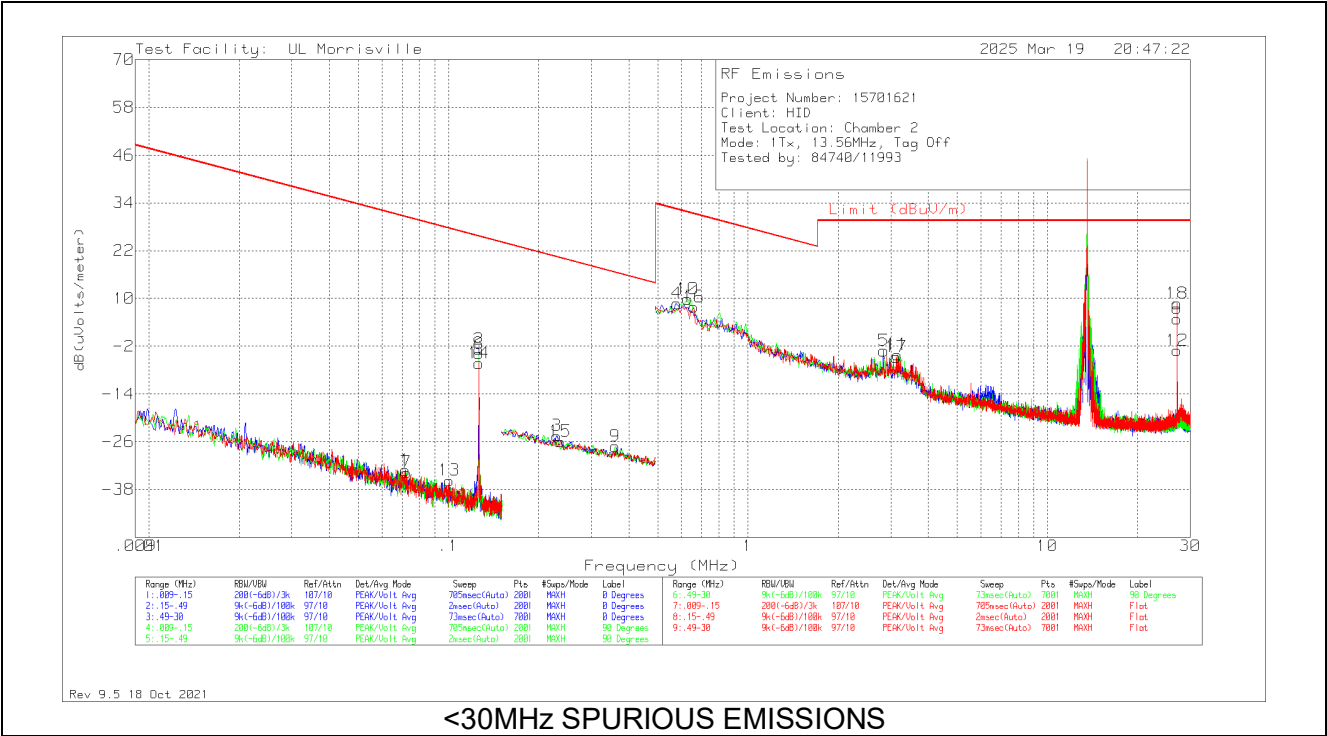
Pk - Peak detector



Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	135144 (dB/m)	Gain/Loss (dB)	Dist. Corr. Factor (dB)	Corrected Reading dB(uVolts/meter)	Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Loop Angle
1	13.084	33.34	Pk	9.8	.6	-40	3.74	29.5	-25.76	297	Flat
2	13.3465	49.33	Pk	9.8	.6	-40	19.73	40.5	-20.77	297	Flat
3	13.5355	60.7	Pk	9.8	.6	-40	31.1	50.5	-19.4	297	Flat
4	13.56	76.47	Pk	9.8	.6	-40	46.87	84	-37.13	297	Flat
5	13.588	59.15	Pk	9.8	.6	-40	29.55	50.5	-20.95	297	Flat
6	13.77	46.87	Pk	9.7	.6	-40	17.17	40.5	-23.33	297	Flat
7	14.029	25.75	Pk	9.7	.6	-40	-3.95	29.5	-33.45	297	Flat

Pk - Peak detector

SPURIOUS EMISSION – E FIELD

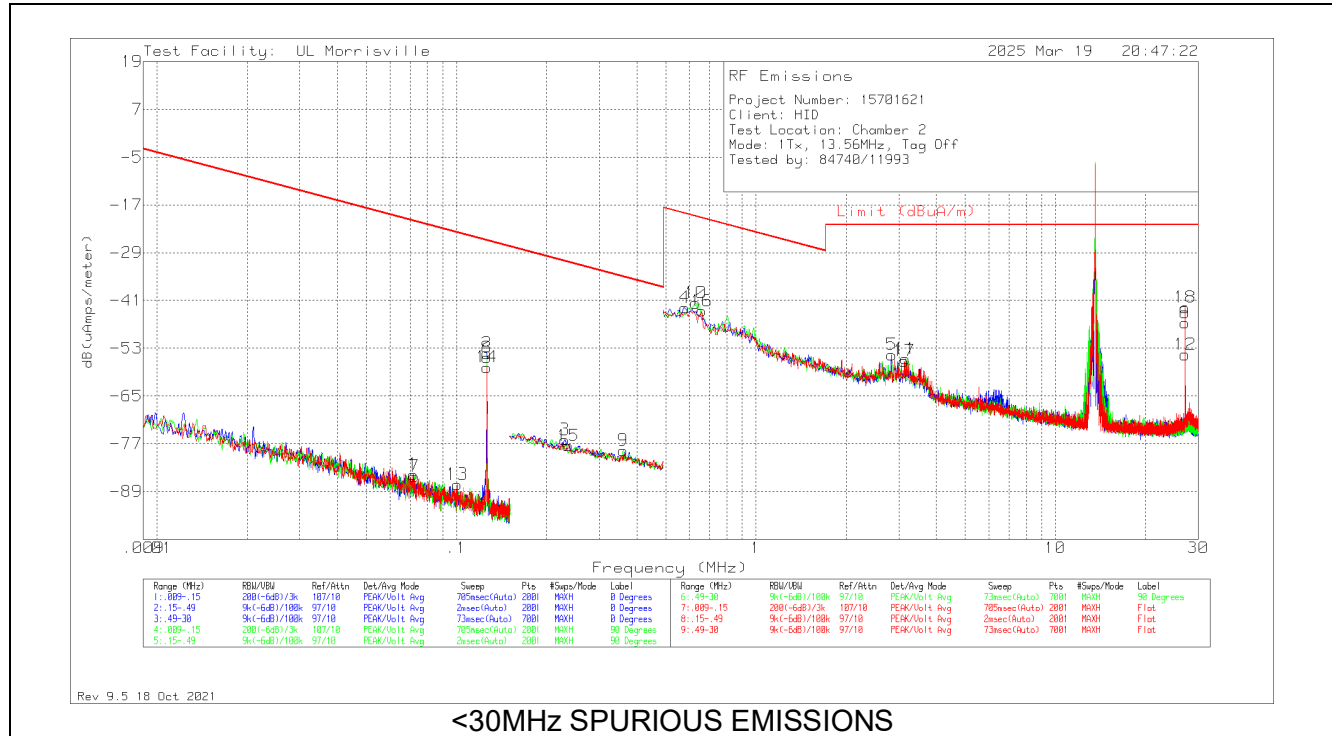


Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	135144 (dB/m)	Gain/Loss (dB)	Dist. Corr. Factor (dB)	Corrected Reading dB(uVolts/meter)	QP/AV Limit (dBuV/m)	PK Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Loop Angle
1	.07176	35.54	Pk	11.2	.1	-80	-33.16	30.49	50.49	-63.65	0-360	0 degs
7	.07233	34.99	Pk	11.2	.1	-80	-33.71	30.42	50.42	-64.13	0-360	90 degs
13	.10059	33.08	Pk	11.1	.1	-80	-35.72	27.55	-	-63.27	0-360	Flat
2	.12636	66.13	Pk	11	.1	-80	-	-	-	-	0-360	0 degs
8	.12636	65.05	Pk	11	.1	-80	-	-	-	-	0-360	90 degs
14	.12636	62.62	Pk	11	.1	-80	-	-	-	-	0-360	Flat
3	.2299	44.5	Pk	10.9	.1	-80	-24.5	20.37	40.37	-44.87	0-360	0 degs
15	.23619	43.03	Pk	10.9	.1	-80	-25.97	20.14	40.14	-46.11	0-360	Flat
9	.36029	41.83	Pk	10.9	.1	-80	-27.17	16.47	36.47	-43.64	0-360	90 degs
4	.57854	37.62	Pk	11	.1	-40	8.72	32.36	-	-23.64	0-360	0 degs
10	.62913	38.76	Pk	11	.1	-40	9.86	31.63	-	-21.77	0-360	90 degs
16	.65864	36.75	Pk	11	.1	-40	7.85	31.23	-	-23.38	0-360	Flat
5	2.84253	25.58	Pk	11.1	.2	-40	-3.12	29.54	-	-32.66	0-360	0 degs
17	3.12922	23.91	Pk	11.1	.3	-40	-4.69	29.54	-	-34.23	0-360	Flat
11	3.15873	24.45	Pk	11.1	.3	-40	-4.15	29.54	-	-33.69	0-360	90 degs
6	27.12247	36.41	Pk	7.7	.8	-40	4.91	29.54	-	-24.63	0-360	0 degs
12	27.12247	28.41	Pk	7.7	.8	-40	-3.09	29.54	-	-32.63	0-360	90 degs
18	27.12247	40.24	Pk	7.7	.8	-40	8.74	29.54	-	-20.8	0-360	Flat

Pk - Peak detector

Note*: 125 kHz signal is a fundamental of the EUT; therefore, it has been excluded from the limit.

SPURIOUS EMISSION – H FIELD



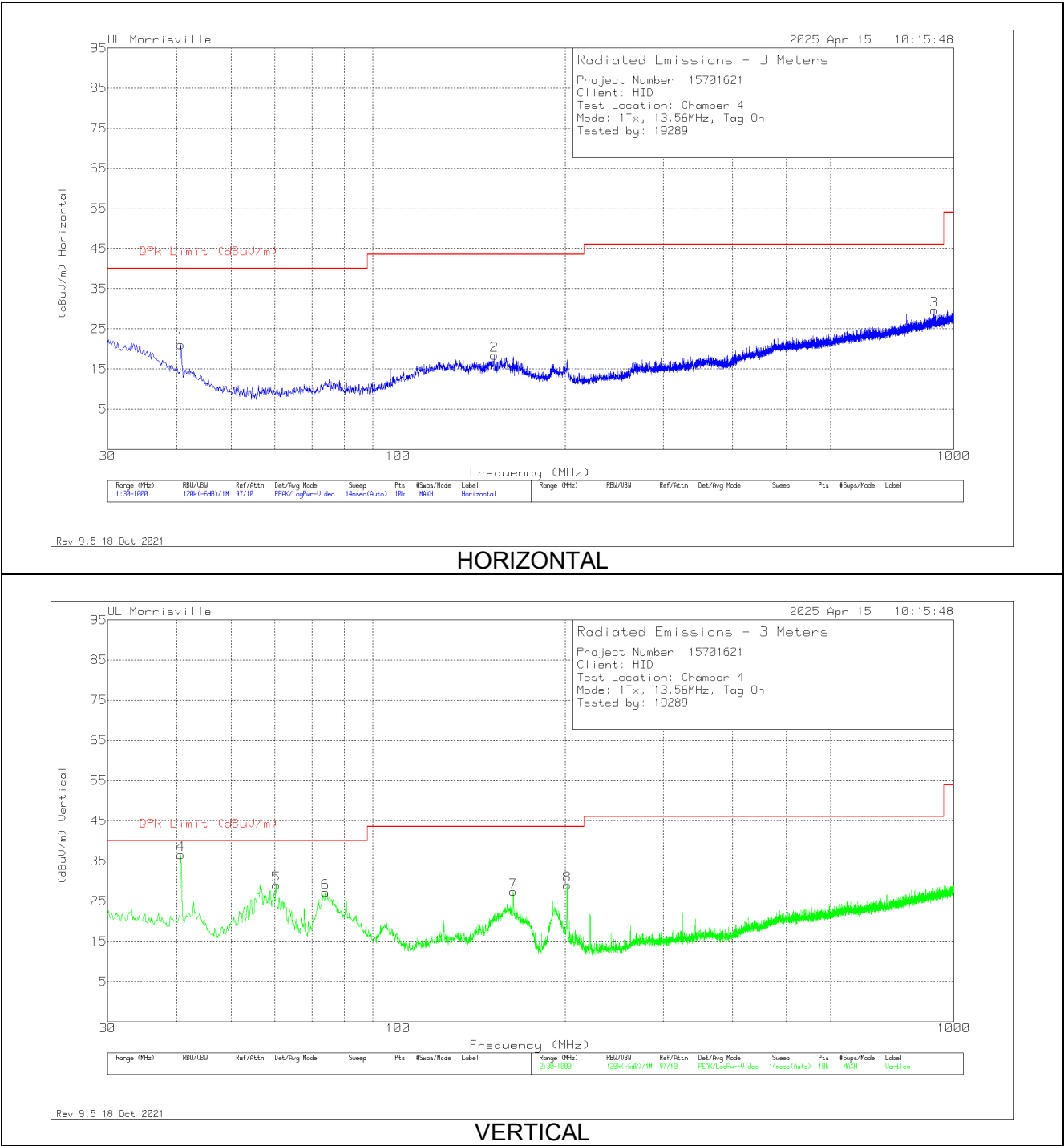
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	135144 (dB/m)	Gain/Loss (dB)	Dist. Corr. Factor (dB)	Corrected Reading dB(uAmps/meter)	QP/AV Limit (dBuA/m)	PK Limit (dBuA/m)	Margin (dB)	Azimuth (Degs)	Loop Angle
1	.07176	35.54	Pk	-40.3	.1	-80	-84.66	-21.01	-1.01	-63.65	0-360	0 degs
7	.07233	34.99	Pk	-40.3	.1	-80	-85.21	-21.08	-1.08	-64.13	0-360	90 degs
13	.10059	33.08	Pk	-40.4	.1	-80	-87.22	-23.95	-	-63.27	0-360	Flat
2	.12636	66.13	Pk	-40.5	.1	-80	-	-	-	-	0-360	0 degs
8	.12636	65.05	Pk	-40.5	.1	-80	-	-	-	-	0-360	90 degs
14	.12636	62.62	Pk	-40.5	.1	-80	-	-	-	-	0-360	Flat
3	.2299	44.5	Pk	-40.6	.1	-80	-76	-31.13	-11.13	-44.87	0-360	0 degs
15	.23619	43.03	Pk	-40.6	.1	-80	-77.47	-31.36	-11.36	-46.11	0-360	Flat
9	.36029	41.83	Pk	-40.6	.1	-80	-78.67	-35.03	-15.03	-43.64	0-360	90 degs
4	.57854	37.62	Pk	-40.5	.1	-40	-42.78	-19.14	-	-23.64	0-360	0 degs
10	.62913	38.76	Pk	-40.5	.1	-40	-41.64	-19.87	-	-21.77	0-360	90 degs
16	.65864	36.75	Pk	-40.5	.1	-40	-43.65	-20.27	-	-23.38	0-360	Flat
5	2.84253	25.58	Pk	-40.4	.2	-40	-54.62	-21.96	-	-32.66	0-360	0 degs
17	3.12922	23.91	Pk	-40.4	.3	-40	-56.19	-21.96	-	-34.23	0-360	Flat
11	3.15873	24.45	Pk	-40.4	.3	-40	-55.65	-21.96	-	-33.69	0-360	90 degs
6	27.12247	36.41	Pk	-43.8	.8	-40	-46.59	-21.96	-	-24.63	0-360	0 degs
12	27.12247	28.41	Pk	-43.8	.8	-40	-54.59	-21.96	-	-32.63	0-360	90 degs
18	27.12247	40.24	Pk	-43.8	.8	-40	-42.76	-21.96	-	-20.8	0-360	Flat

Pk - Peak detector

Note*: 125 kHz signal is a fundamental of the EUT; therefore, it has been excluded from the limit.

9.3. TX SPURIOUS EMISSION 30 TO 1000 MHz

9.3.1. TYPE A, TAG ON

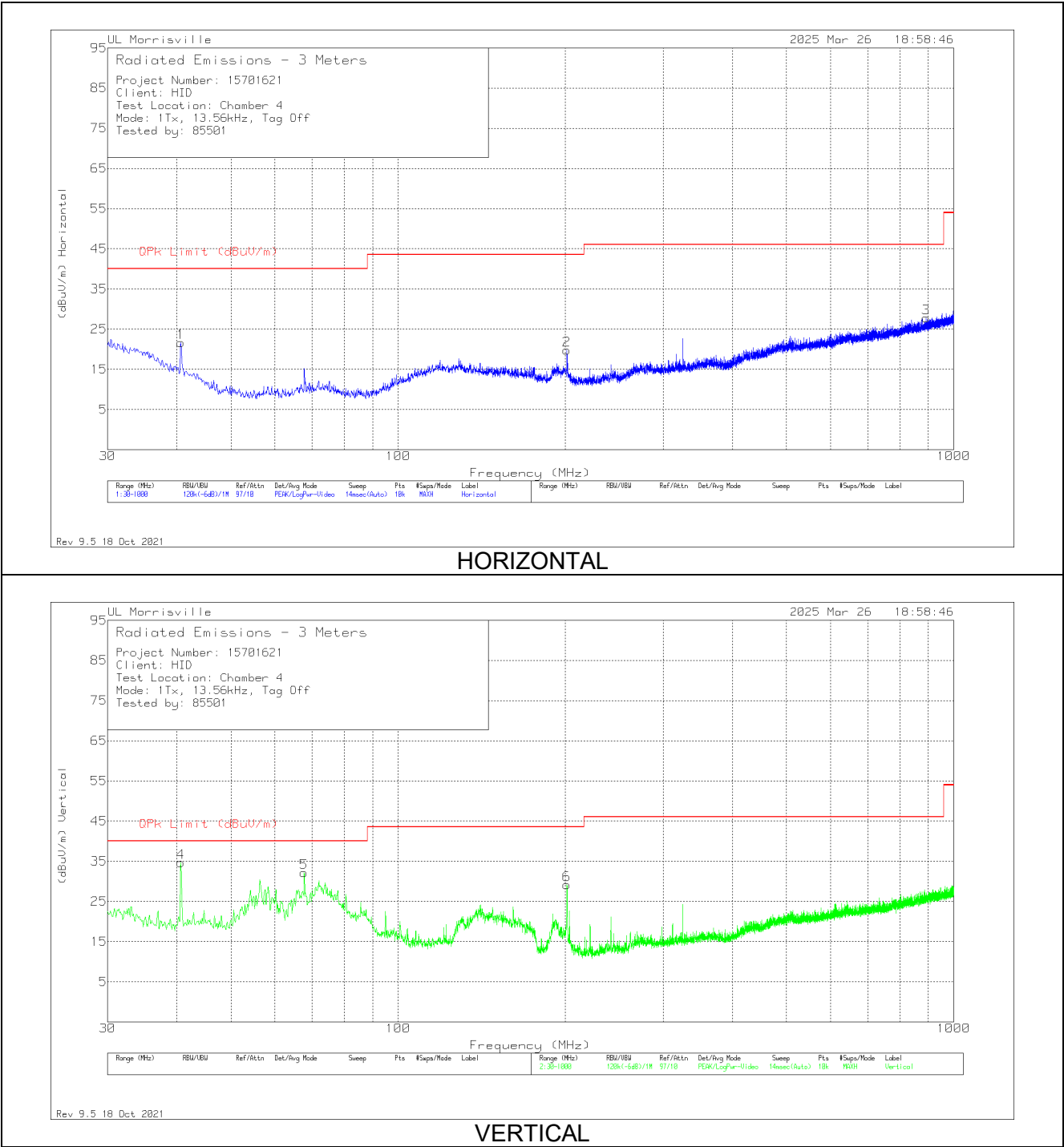


Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	90628 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	40.67	33.51	Pk	19.5	-32	21.01	40	-18.99	0-360	100	H
4	40.67887	46.97	Qp	19.5	-32	34.47	40	-5.53	204	102	V
5	60.361	47.05	Pk	13.8	-31.8	29.05	40	-10.95	0-360	100	V
6	74.038	44.55	Pk	14.2	-31.6	27.15	40	-12.85	0-360	100	V
2	149.019	30.75	Pk	18.7	-31	18.45	43.52	-25.07	0-360	200	H
7	161.144	40.05	Pk	18.4	-31.1	27.35	43.52	-16.17	0-360	100	V
8	201.399	41.36	Pk	18.5	-30.8	29.06	43.52	-14.46	0-360	100	V
3	922.788	28.08	Pk	28.5	-26.9	29.68	46.02	-16.34	0-360	100	H

Pk - Peak detector

Qp - Quasi-Peak detector

9.3.2. TYPE A, TAG OFF



Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	90628 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	40.67	34.15	Pk	19.5	-32	21.65	40	-18.35	0-360	100	H
4	40.6753	45.85	Qp	19.5	-32	33.35	40	-6.65	167	103	V
5	67.733	49.6	Pk	14.3	-31.7	32.2	40	-7.8	0-360	100	V
2	201.302	31.96	Pk	18.6	-30.8	19.76	43.52	-23.76	0-360	100	H
6	201.302	41.32	Pk	18.6	-30.8	29.12	43.52	-14.4	0-360	100	V
3	891.457	27.05	Pk	28.1	-27.4	27.75	46.02	-18.27	0-360	100	H

Pk - Peak detector

Qp - Quasi-Peak detector

10. FREQUENCY STABILITY

LIMIT

§15.225 (e) The frequency tolerance of the carrier signal shall be maintained within $\pm 0.01\%$ of the operating frequency, over a temperature variation of -20 degrees to +50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.

IC RSS-210, Annex B.6

Carrier frequency stability shall be maintained to $\pm 0.01\%$ (± 100 ppm).

Note* - The high voltage used for this test was declared as the maximum voltage by the manufacturer.

TEST PROCEDURE

ANSI C63.10-2020 Clause 6.8

RESULTS

No non-compliance noted.

Nominal: 12 VDC

Low: 10.2 VDC

High: 13.2 VDC

10.1. Tag On

RESULTS

Reference Frequency: EUT Channel 13.56 MHz @ 20°C Limit: ± 100 ppm = 1.356 kHz										
Power Supply	Envir. Temp	Frequency Deviation Measured with Time Elapse								
(Vdc)	(°C)	Startup (MHz)	Delta (ppm)	@ 2 mins (MHz)	Delta (ppm)	@ 5 mins (MHz)	Delta (ppm)	@ 10 mins (MHz)	Delta (ppm)	Limit (ppm)
12.00	50	13.5598527	2.345	13.5598515	2.430	13.5598509	2.473	13.5598508	2.486	± 100
12.00	40	13.5598715	0.958	13.5598653	1.414	13.5598614	1.697	13.5598583	1.932	± 100
12.00	30	13.5598780	0.477	13.5598760	0.625	13.5598742	0.758	13.5598721	0.914	± 100
12.00	20	13.5598845	0.000	13.5598802	0.312	13.5598783	0.453	13.5598763	0.602	± 100
12.00	10	13.5598925	-0.597	13.5598940	-0.706	13.5598959	-0.844	13.5598978	-0.982	± 100
12.00	0	13.5599027	-1.345	13.5599043	-1.465	13.5599057	-1.568	13.5599067	-1.639	± 100
12.00	-10	13.5599058	-1.576	13.5599051	-1.522	13.5599038	-1.427	13.5599014	-1.250	± 100
12.00	-20	13.5598986	-1.046	13.5598944	-0.732	13.5598880	-0.264	13.5598802	0.314	± 100
13.20	20	13.5598639	1.517	13.5598678	1.228	13.5598720	0.918	13.5598769	0.561	± 100
10.2	20	13.55987732	0.526	13.55987618	0.611	13.55987497	0.699	13.55987328	0.824	± 100

Tested by: 33499/84740

Test date: 2025-03-18

10.2. Tag Off

Reference Frequency: EUT Channel 13.56 MHz @ 20°C Limit: ± 100 ppm = 1.356 kHz										
Power Supply	Envir. Temp	Frequency Deviation Measured with Time Elapse								
(Vdc)	(°C)	Startup (MHz)	Delta (ppm)	@ 2 mins (MHz)	Delta (ppm)	@ 5 mins (MHz)	Delta (ppm)	@ 10 mins (MHz)	Delta (ppm)	Limit (ppm)
12.00	50	13.5598544	1.407	13.5598538	1.450	13.5598522	1.572	13.5598510	1.658	± 100
12.00	40	13.5598610	0.924	13.5598594	1.043	13.5598583	1.122	13.5598567	1.238	± 100
12.00	30	13.5598764	-0.213	13.5598749	-0.106	13.5598732	0.018	13.5598711	0.173	± 100
12.00	20	13.5598735	0.000	13.5598744	-0.068	13.5598757	-0.160	13.5598776	-0.302	± 100
12.00	10	13.5598803	-0.505	13.5598829	-0.695	13.5598838	-0.759	13.5598881	-1.075	± 100
12.00	0	13.5598954	-1.614	13.5598978	-1.792	13.5599009	-2.020	13.5599037	-2.227	± 100
12.00	-10	13.5599076	-2.518	13.5599073	-2.494	13.5599066	-2.442	13.5599050	-2.323	± 100
12.00	-20	13.5598968	-1.717	13.5598941	-1.520	13.5598903	-1.239	13.5598840	-0.778	± 100
10.20	20	13.5598835	-0.738	13.5598819	-0.619	13.5598803	-0.504	13.5598785	-0.369	± 100
13.20	20	13.55987832	-0.356	13.55987767	-0.308	13.55987679	-0.243	13.55987584	-0.174	± 100

Tested by: 33499/84740, 85502
Test date: 2025/03/17 - 2025/03/18

11. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)
RSS-Gen 8.8

Frequency of Emission (MHz)	Conducted Limit (dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56 *	56 to 46 *
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

TEST PROCEDURE

The EUT is placed on a non-conducting table 40 cm from the vertical ground plane and 80 cm above the horizontal ground plane. The EUT is configured in accordance with ANSI C63.10.

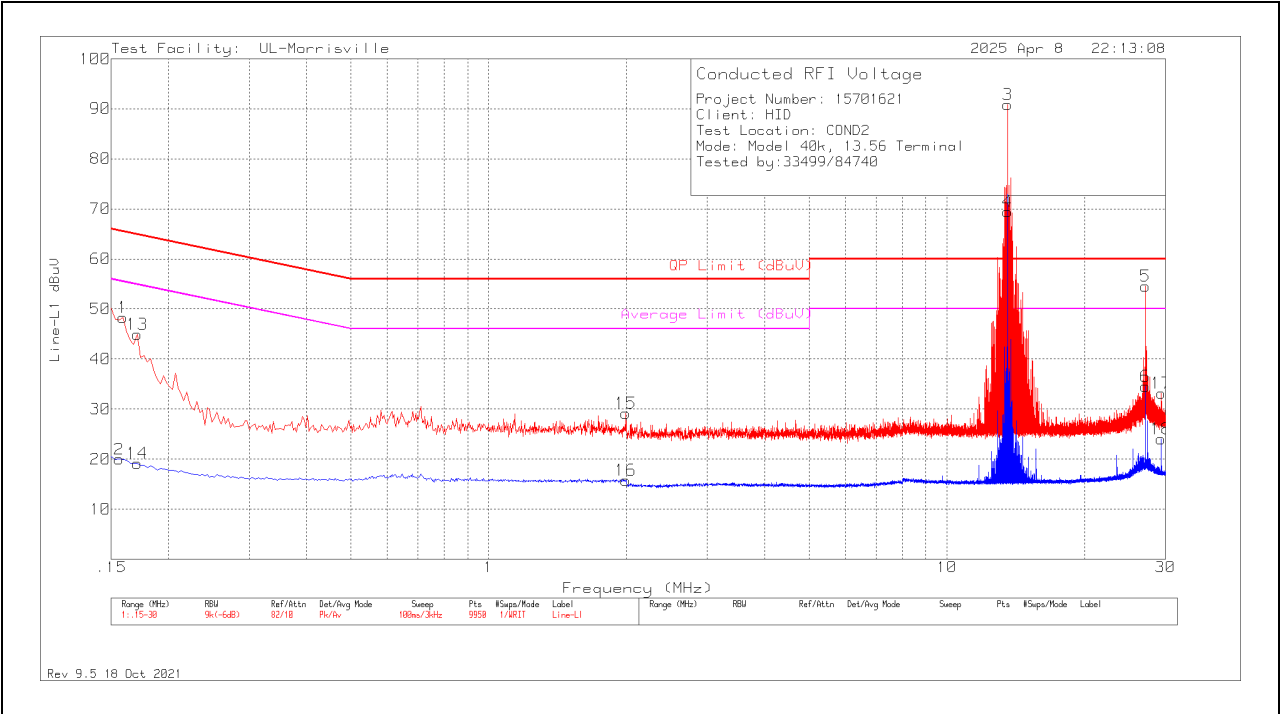
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

Line conducted data is recorded for both lines.

RESULTS

11.1. AC POWER LINE TAG ON (RADIATED SAMPLE)

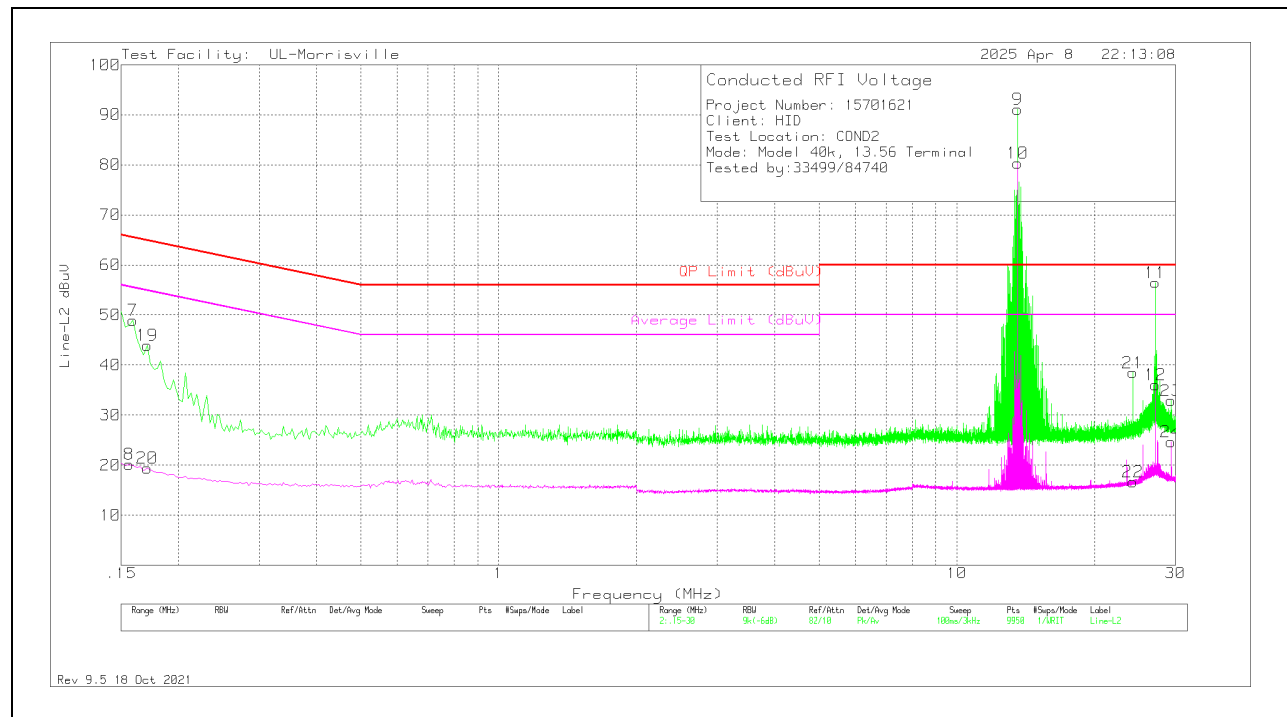
LINE 1 RESULTS



Range 1: Line-L1 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN VDF (dB)	171083 (dB)	Atten (dB)	Corrected Reading dBuV	QP Limit (dBuV)	Margin (dB)	Average Limit (dBuV)	Margin (dB)
1	.159	28.13	Pk	.2	0	20	48.33	65.52	-17.19	-	-
2	.156	-24	Av	.2	0	20	19.96	-	-	55.67	-35.71
13	.171	24.7	Pk	.2	0	20	44.9	64.91	-20.01	-	-
14	.171	-1.04	Av	.2	0	20	19.16	-	-	54.91	-35.75
15	1.992	9.09	Pk	0	.1	20	29.19	56	-26.81	-	-
16	1.992	-4.35	Av	0	.1	20	15.75	-	-	46	-30.25
3	13.5606	67.21	Qp	.1	.3	20	87.61	60	27.61	-	-
4	13.5606	56.06	Ca	.1	.3	20	76.46	-	-	50	26.46
5	27.1212	31.09	Qp	.4	.4	20	51.89	60	-8.11	-	-
6	27.126	13.74	Av	.4	.4	20	34.54	-	-	50	-15.46
18	29.373	3.08	Av	.5	.4	20	23.98	-	-	50	-26.02
17	29.385	12.25	Pk	.5	.4	20	33.15	60	-26.85	-	-

Pk - Peak detector
Av - Average detection
Qp - Quasi-Peak detector
Ca - CISPR average detection
NOTE* - Since the fundamental is over the limit, a terminated sample will be used to show compliance. Refer to section 11.3.

LINE 2 RESULTS



Range 2: Line-L2 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN VDF (dB)	171083 (dB)	Atten (dB)	Corrected Reading dBuV	QP Limit (dBuV)	Margin (dB)	Average Limit (dBuV)	Margin (dB)
7	.159	28.77	Pk	.2	0	20	48.97	65.52	-16.55	-	-
8	.156	-.01	Av	.2	0	20	20.19	-	-	55.67	-35.48
19	.171	23.69	Pk	.2	0	20	43.89	64.91	-21.02	-	-
20	.171	-.82	Av	.2	0	20	19.38	-	-	54.91	-35.53
9	13.5608	66.31	Qp	.1	.3	20	86.71	60	26.71	-	-
10	13.5608	-1.39	Ca	.1	.3	20	19.01	-	-	50	-30.99
21	24.21	17.78	Pk	.3	.4	20	38.48	60	-21.52	-	-
22	24.21	-4.03	Av	.3	.4	20	16.67	-	-	50	-33.33
11	27.1214	31.33	Qp	.4	.4	20	52.13	60	-7.87	-	-
12	27.117	15.24	Av	.4	.4	20	36.04	-	-	50	-13.96
23	29.379	11.96	Pk	.5	.4	20	32.86	60	-27.14	-	-
24	29.379	3.71	Av	.5	.4	20	24.61	-	-	50	-25.39

Pk - Peak detector

Av - Average detection

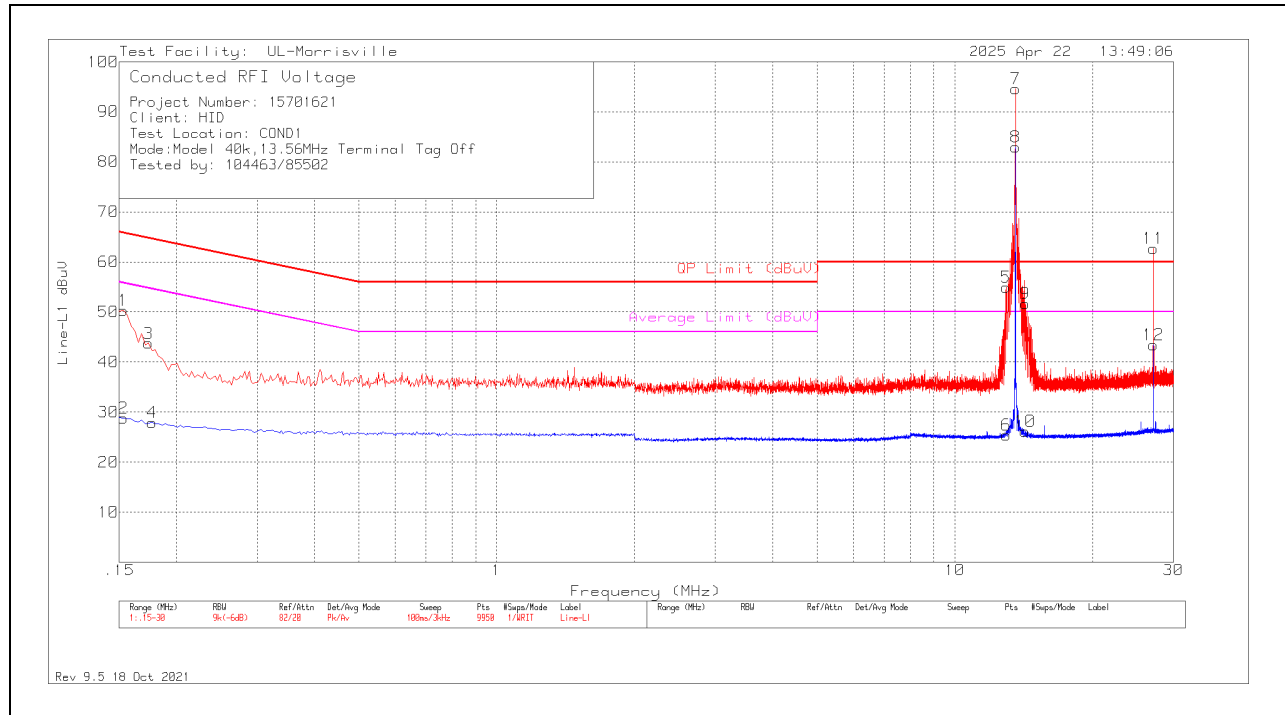
Qp - Quasi-Peak detector

Ca - CISPR average detection

NOTE* - Since the fundamental is over the limit, a terminated sample will be used to show compliance. Refer to section 11.3.

11.2. AC POWER LINE TAG OFF (RADIATED SAMPLE)

LINE 1 RESULTS



Range 1: Line-L1 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN VDF (dB)	171083 (dB)	Atten (dB)	Corrected Reading dBuV	QP Limit (dBuV)	Margin (dB)	Average Limit (dBuV)	Margin (dB)
1	.153	30.16	Pk	.2	0	20	50.36	65.84	-15.48	-	-
2	.153	8.6	Av	.2	0	20	28.8	-	-	55.84	-27.04
3	.174	23.54	Pk	.2	0	20	43.74	64.77	-21.03	-	-
4	.177	7.66	Av	.2	0	20	27.86	-	-	54.63	-26.77
5	12.9251	17.59	Qp	.1	.3	20	37.99	60	-22.01	-	-
6	12.93	5.05	Av	.1	.3	20	25.45	-	-	50	-24.55
7	13.5607	72.31	Qp	.1	.3	20	92.71	60	32.71	-	-
8	13.5607	61.31	Ca	.1	.3	20	81.71	-	-	50	31.71
10	14.2455	5.71	Av	.1	.3	20	26.11	-	-	50	-23.89
9	14.25	31.24	Pk	.1	.3	20	51.64	60	-8.36	-	-
11	27.1194	36.72	Qp	.4	.4	20	57.52	60	-2.48	-	-
12	27.12	22.65	Av	.4	.4	20	43.45	-	-	50	-6.55

Pk - Peak detector

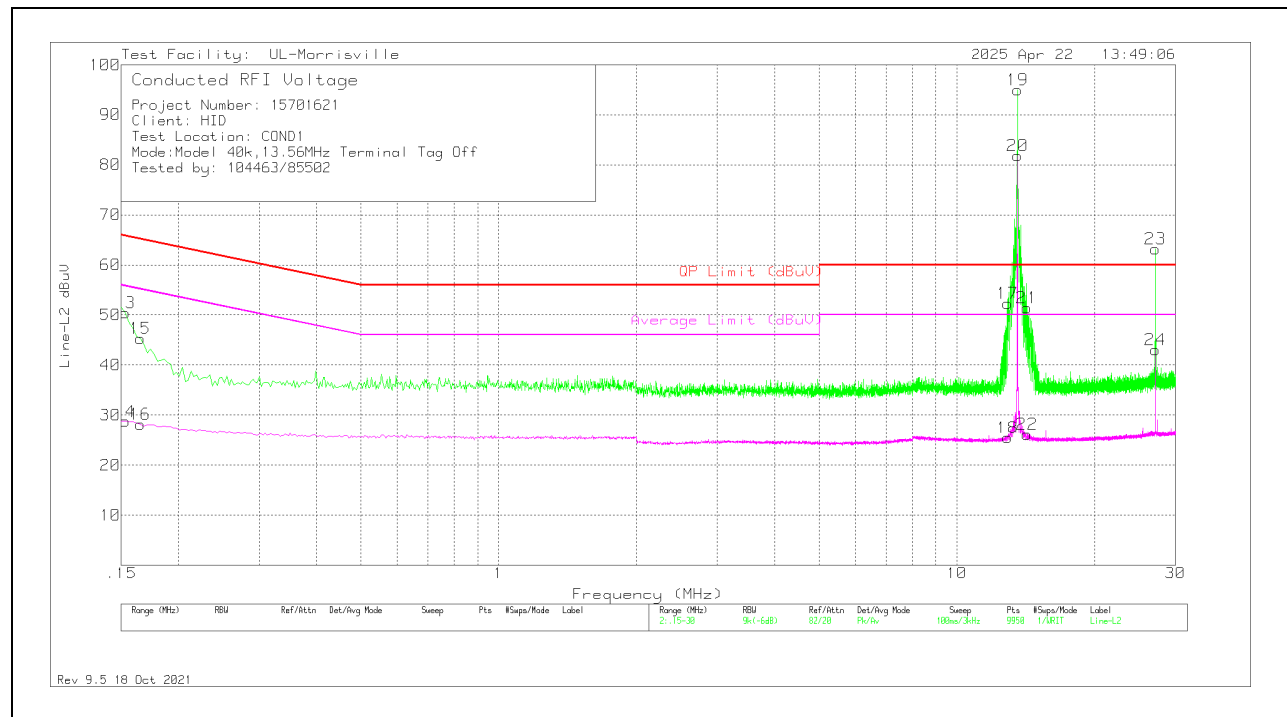
Av - Average detection

Qp - Quasi-Peak detector

Ca - CISPR average detection

NOTE* - Since the fundamental is over the limit, a terminated sample will be used to show compliance. Refer to section 11.3.

LINE 2 RESULTS



Range 2: Line-L2 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN VDF (dB)	171083 (dB)	Atten (dB)	Corrected Reading dBuV	QP Limit (dBuV)	Margin (dB)	Average Limit (dBuV)	Margin (dB)
13	.153	30.2	Pk	.2	0	20	50.4	65.84	-15.44	-	-
14	.153	8.52	Av	.2	0	20	28.72	-	-	55.84	-27.12
15	.165	25.13	Pk	.2	0	20	45.33	65.21	-19.88	-	-
16	.165	7.99	Av	.2	0	20	28.19	-	-	55.21	-27.02
18	12.9	5.07	Av	.1	.3	20	25.47	-	-	50	-24.53
17	12.921	31.88	Pk	.1	.3	20	52.28	60	-7.72	-	-
19	13.5606	72.49	Qp	.1	.3	20	92.89	60	32.89	-	-
20	13.5606	61.8	Ca	.1	.3	20	82.2	-	-	50	32.2
22	14.238	5.79	Av	.1	.3	20	26.19	-	-	50	-23.81
21	14.247	31.03	Pk	.1	.3	20	51.43	60	-8.57	-	-
23	27.1221	37.61	Qp	.4	.4	20	58.41	60	-1.59	-	-
24	27.12	22.24	Av	.4	.4	20	43.04	-	-	50	-6.96

Pk - Peak detector

Av - Average detection

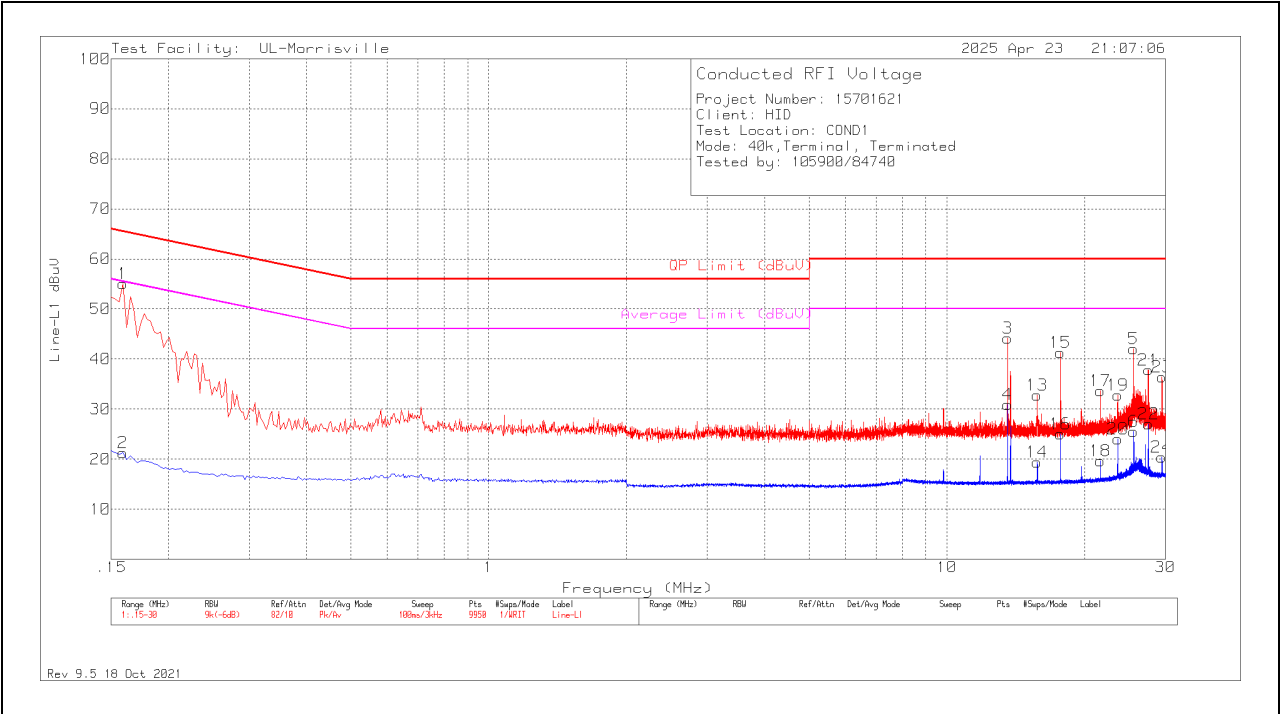
Qp - Quasi-Peak detector

Ca - CISPR average detection

NOTE* - Since the fundamental is over the limit, a terminated sample will be used to show compliance. Refer to section 11.3.

11.3. TERMINATED SAMPLE

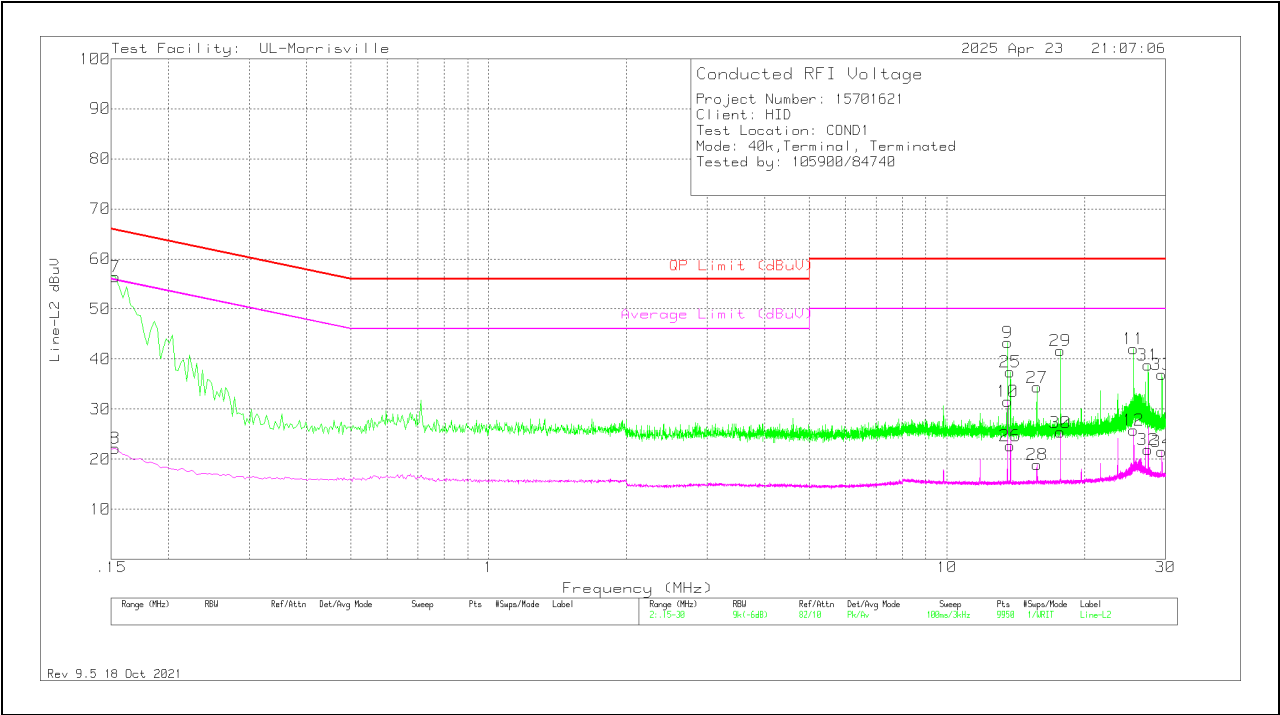
LINE 1 RESULTS



Range 1: Line-L1 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN VDF (dB)	171083 (dB)	Atten (dB)	Corrected Reading dBuV	QP Limit (dBuV)	Margin (dB)	Average Limit (dBuV)	Margin (dB)
1	.159	34.87	Pk	.2	0	20	55.07	65.52	-10.45	-	-
2	.159	1.09	Av	.2	0	20	21.29	-	-	55.52	-34.23
3	13.56	23.82	Pk	.1	.3	20	44.22	60	-15.78	-	-
4	13.56	10.5	Av	.1	.3	20	30.9	-	-	50	-19.1
14	15.726	-1.11	Av	.2	.3	20	19.39	-	-	50	-30.61
13	15.729	12.26	Pk	.2	.3	20	32.76	60	-27.24	-	-
15	17.685	20.82	Pk	.2	.3	20	41.32	60	-18.68	-	-
16	17.685	4.51	Av	.2	.3	20	25.01	-	-	50	-24.99
17	21.615	12.92	Pk	.3	.4	20	33.62	60	-26.38	-	-
18	21.615	-1.03	Av	.3	.4	20	19.67	-	-	50	-30.33
19	23.625	12.08	Pk	.3	.4	20	32.78	60	-27.22	-	-
20	23.64	3.36	Av	.3	.4	20	24.06	-	-	50	-25.94
5	25.539	21.21	Pk	.4	.4	20	42.01	60	-17.99	-	-
6	25.542	4.71	Av	.4	.4	20	25.51	-	-	50	-24.49
21	27.525	17.05	Pk	.4	.4	20	37.85	60	-22.15	-	-
22	27.573	6.24	Av	.4	.4	20	27.04	-	-	50	-22.96
24	29.463	-.53	Av	.5	.4	20	20.37	-	-	50	-29.63
23	29.478	15.48	Pk	.5	.4	20	36.38	60	-23.62	-	-

Pk - Peak detector
Av - Average detection

LINE 2 RESULTS



Range 2: Line-L2 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN VDF (dB)	171083 (dB)	Atten (dB)	Corrected Reading dBuV	QP Limit (dBuV)	Margin (dB)	Average Limit (dBuV)	Margin (dB)
7	.153	36.22	Pk	.2	0	20	56.42	65.84	-9.42	-	-
8	.153	1.92	Av	.2	0	20	22.12	-	-	55.84	-33.72
9	13.56	22.95	Pk	.1	.3	20	43.35	60	-16.65	-	-
10	13.56	11.18	Av	.1	.3	20	31.58	-	-	50	-18.42
26	13.749	2.21	Av	.1	.3	20	22.61	-	-	50	-27.39
25	13.758	17.04	Pk	.1	.3	20	37.44	60	-22.56	-	-
27	15.729	13.85	Pk	.2	.3	20	34.35	60	-25.65	-	-
28	15.753	-1.61	Av	.2	.3	20	18.89	-	-	50	-31.11
29	17.676	21.2	Pk	.2	.3	20	41.7	60	-18.3	-	-
30	17.682	4.84	Av	.2	.3	20	25.34	-	-	50	-24.66
11	25.533	21.24	Pk	.4	.4	20	42.04	60	-17.96	-	-
12	25.539	4.93	Av	.4	.4	20	25.73	-	-	50	-24.27
31	27.501	17.96	Pk	.4	.4	20	38.76	60	-21.24	-	-
32	27.501	1.05	Av	.4	.4	20	21.85	-	-	50	-28.15
33	29.463	16	Pk	.5	.4	20	36.9	60	-23.1	-	-
34	29.469	.6	Av	.5	.4	20	21.5	-	-	50	-28.5

Pk - Peak detector
Av - Average detection

12. SETUP PHOTOS

Please refer to R15701621-EP3d for setup photos

END OF TEST REPORT